



CONSTRUCTION PERMIT APPLICATION

Applicant Completes: Sections I, II, III (optional), IV, VI, and VII

I. IDENTIFICATION

1. Proposed Work Site at: 58 Brower Drive Brick NJ 08734
2. Name of Owner in Fee: Bob Cannarozzo Te [REDACTED]
Address 58 Brower Drive Brick NJ 08734
street municipality zip code
3. Ownership in Fee: Public _____ Private X
4. Principal Contractor: Sea Bright Solar Tel. (732) 450-8852
Address 30 Beach Street Sea Bright NJ 09760
License No. OR, if new home, Builder Reg. No. 13VH01847000 Exp. Date 12-31-07
Federal Employee No. 731684148 FAX: (732) 450-1858
5. Architect or Engineer _____ Tel. (_____) _____
Address _____ Contact _____
6. Responsible Person in Charge once Work has Begun Brian Kelly
Tel. (132) 693-7843 FAX: (732) 450-1858

V. FEE SUMMARY (for office use only)

		Update	Update
1. Building	\$ <u>13</u>		
2. Electrical	<u>135</u>		
3. Plumbing			
4. Fire Protection			
5. Elevator Devices			
6. Subtotal	\$ <u>65</u>		
7. Less 20% for State Plan Review			
8. Subtotal	\$		
9. State Permit Surcharge Fee			
10. Subtotal	\$		
11. Cert. of Occupancy			
12. Other			
13. TOTAL	\$ <u>272</u>		

VI. BUILDING/SITE CHARACTERISTICS

- Number of Stories _____
- Height of Structure _____ ft.
- Area — Largest Floor _____ sq. ft.
- New Building Area _____ sq. ft.
- Volume of New Structure _____ cu. ft.
- Construction Classification _____
- Total Land Area Disturbed _____ sq. ft.
- Flood Hazard Zone _____
- Base Flood Elevation _____ ft.
- Wetlands yes _____
no _____
- Max. Live Load _____
- Max. Occupancy Load _____

(office use only)

OPTIONAL (for office use only)

II. PROPOSED WORK	Est. Cost	Plans Rec'd by	Date Rec'd	Rejection Date	Approval Date	Re-viewer	Resubmission Dates Approval	Rejection	Re-viewer
1. ☐ Minor Work					<u>11-27-07</u>	<u>[Signature]</u>	<u>12-13-07</u>		
2. ☐ New Building									
3. ☐ Addition									
4. ☐ a. Repair ☐ b. Alteration ☐ c. Renovation ☐ d. Reconstruction									
5. ☐ Fire Protection									
6. ☐ Plumbing									
7. ☒ Electrical					<u>10/30/07</u>	<u>[Signature]</u>	<u>12/17/07</u>		
8. ☐ Elevator Devices									
9. ☐ Asbestos Abat. Subch. 8									
10. ☐ Lead Hazard Abatement									
11. ☐ Demolition									
TOTAL COSTS									

VII. DESCRIPTION OF BUILDING USE

A. RESIDENTIAL

- State Specific Use:
- Use Group:
- Change in Use Group, Indicate Former:
- No. of dwelling units: All Units Income-restricted
Before Construction _____
After Construction _____
Net Gain or Loss _____

B. NON-RESIDENTIAL

- State Specific Use:
- Use Group:
- Change in Use Group, Indicate Former:

III. DO YOU WANT: (optional)

- ☐ Partial Releases
- ☐ Prototype Processing

IV. DOES OR WILL YOUR BUILDING CONTAIN ANY OF THE FOLLOWING?

- ☐ Elevators/Escalators/Lifts/
Dumbwaiters/Moving Walks
- ☐ High Pressure Boilers
- ☐ Pressure Vessels
- ☐ Refrigeration Systems
- ☐ Cross-Connections/Backflow Preventers
- ☐ Hazardous Uses/Places of Assembly
- ☐ Sprinklers
- ☐ Smoke Control Systems in Open Wells
- ☐ Underground Storage Tanks
- ☐ Swimming Pools, Spas and Hot Tubs

CERTIFICATION IN LIEU OF OATH

I. OWNER SECTION (to be completed if the applicant is the owner in fee)

I hereby certify that I am the owner in fee of the property listed on Page 1.

Mark the following applicable boxes:

- A. ☐ I further certify that a new home (private residence) will be constructed on this property for my own use and occupancy. This dwelling is to be occupied by myself and is not to be used for any purpose other than single family residential use. I attest that all construction, plumbing, or electrical work will be done, in whole or in part, by me or by subcontractors under my supervision, in accordance with all applicable laws; and, I further acknowledge that said new home is not covered under the New Home Warranty and Builders Registration Act (N.J.S.A. 46:3B-1 et seq.) and that such fact shall be disclosed to any person purchasing this property within ten years of the date of issuance of a certificate of occupancy.

I UNDERSTAND THAT IN MARKING BOX A, I ACKNOWLEDGE THAT I AM ASSUMING RESPONSIBILITY FOR THE WORK DONE ON SAID PROPERTY, THE CONDITION OF THE PROPERTY PRIOR TO, DURING, AND AFTER ANY WORK PERFORMED, AND FOR THE PERFORMANCE OF THE SUBCONTRACTORS I HIRE, EMPLOY, OR OTHERWISE CONTRACT OR WITH WHOM I MAKE AGREEMENTS TO PERFORM WORK. I AM VOLUNTARILY AND KNOWINGLY ASSUMING THIS RESPONSIBILITY.

- B. ☐ I further certify the following as required by the New Jersey Uniform Construction Code, N.J.A.C. 5:23-2.15(e)1.vii:

I personally prepared the plans submitted for: 1) the new home referred to in A.; or, 2) an addition, alteration, renovation, or repair to an existing single family residence owned and occupied by myself and located on the property listed on Page 1; or, 3) a new structure that will be physically separate from, but that will be deemed part of, an existing single family residence that is owned and occupied by myself and located on the property listed on Page 1.

- C. ☐ I further certify that I will perform or supervise the following work:

C.1. ☐ Building C.2. ☐ Fire Protection

I further certify that I will perform the following work:

C.3. ☐ Electrical C.4. ☐ Plumbing

- D. ☐ I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I understand that if any of the above statements are willfully false, I am subject to punishment.

Signature _____ Date _____

II. AGENT SECTION (to be completed if the applicant is not the owner in fee)

I hereby certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(d): the proposed work is authorized by the owner in fee; and I have been authorized by the owner in fee to make this application as his agent.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I understand that if any of the above statements are willfully false, I am subject to punishment.

☒ Check if contractor.

Agent Name Brian Kelly
Address 30 Beach St
Sea Bright NJ 07760
Telephone (732) 693 7843
Signature BK

- III. ☐ LEAD HAZARD ABATEMENT: Include Homeowner or Building Owner Affidavit as per N.J.A.C. 5:17.

OFFICE DATE RECEIVED: _____

VIII. PRIOR APPROVALS CHECKLIST (office use only)	LOCAL APPROVAL		COUNTY APPROVAL		REGIONAL APPROVAL		STATE APPROVAL		COMMENTS
	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	
☐ Zoning Officer			X		X		X		
☐ Planning Board			X		X		X		
☐ Zoning Board			X		X		X		
☐ Sewer Authority			X		X		X		
☐ Water Authority			X		X		X		
☐ Police Department			X		X		X		
☐ Health Department			X		X		X		
☐ Soil Conservation			X		X		X		
☐ N.J. Department of Community Affairs			X		X		X		
☐ N.J. Department of Transportation			X		X		X		
☐ N.J. Department of Environmental Protection			X		X		X		
☐ Utility Dig No.			X		X		X		
☐			X		X		X		
☐			X		X		X		

IX. SUBCODES AND SPECIAL REGULATIONS APPLICABLE (office use only—optional)	
Name of Code & Edition	Name of Code & Edition
Building _____	Energy _____
Electrical _____	Barrier Free _____
Plumbing _____	Flood Hazard _____
Fire Protection _____	As Built Elevation Cert. _____
Mechanical _____	Other _____

X. CERTIFICATES ISSUED (office use only)	DATE ISSUED	DATE EXPIRED	DATE REISSUED	DATE EXPIRED
☐ Temporary Certificate of Occupancy	No. _____	_____	_____	_____
☐ Temporary Certificate of Compliance	No. _____	_____	_____	_____
☐ Continued Certificate of Occupancy	No. _____	_____	_____	_____
☐ Certificate of Compliance	No. _____	_____	_____	_____
☐ Certificate of Occupancy	No. _____	_____	_____	_____
☐ Certificate of Approval	No. _____	_____	_____	_____
☐ Lead Abatement Clearance Certificate	No. _____	_____	_____	_____



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723

Date Issued 12/19/2007
Control Number C-07-004955
Permit Number 07-3725
Permit Issue Date 11/28/2007
Certificate Number 07-3725

450-1858

Certificate

Construction Code Division
(Certificate of Approval)

Identification

Work Site Location: 58 BROWER DR. Brick Township, NJ Block: 88.01 Lot: 5 Qual: _____
Owner In Fee: CANNAROSSO, ROBERTO & CAROLYN
Owner Address: 58 BROWER DR BRICK NJ 08723
Telephone: [REDACTED]
Contractor: SEA BRIGHT SOLAR
Address: 30 BEACH STREET SEA BRIGHT NJ 07760
Telephone: (732) 450-8852 Fax: (732) 450-1858
License Number or Builders Registration Number: 13VH01847600 Federal Emp. Number: _____

Home Warranty Number: _____

Type of Warranty Plan: ☐ State ☐ Private

Use Group: R-5 Construction Classification: _____

Maximum Live Load: 0 Maximum Occupancy Load: 0

Description of Work Used: SOLAR PANELS INSTALLATION OF 6.27 KW ROOF MOUNTED SOLAR ELECTRIC SYSTEM.

Certificate Comments:

☐ **Certificate of Occupancy**

This serves notice that said building or structure has been constructed in accordance with the New Jersey Uniform Construction Code and is approved for occupancy.

☒ **Certificate of Approval**

This serves notice that the work completed has been constructed or installed in accordance with the New Jersey Uniform Construction Code and is approved. If the permit was issued for minor work, this certificate was based upon what was visible at the time of inspection.

☐ **Certificate of Continued Occupancy**

This serves notice that based on a general inspection of the visible parts of the building there are no imminent hazards and the building is approved for continued occupancy.

☐ **Temporary Certificate of Compliance**

The following conditions must be met no later than or the owner will be subject to fine or order to vacate:
This certificate has an expiration date of:
Conditions to be met:

☐ **Certificate of Clearance - Lead Abatement 5:17**

This serves notice that based on written certification, lead abatement was performed as per NJACS:17 to the following extent.

- ☐ Total removal of lead-based paint hazards in scope of work
☐ Partial or limited time period (years); see file

☐ **Certificate of Clearance - Asbestos Abatement**

This serves notice that based on written certification, asbestos abatement was performed to the following extent.

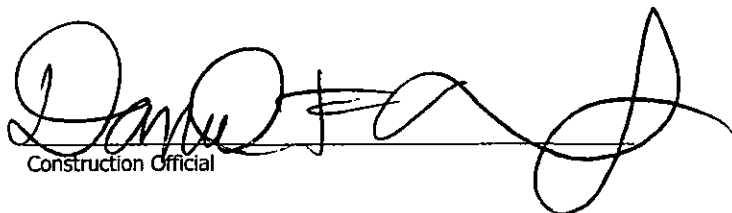
- ☐ Total removal of asbestos hazards in scope of work
☐ Partial or limited time period (years); see file

☐ **Certificate of Compliance**

This serves notice that said potentially hazardous equipment has been installed and/or maintained in accordance with the New Jersey Uniform Construction Code and is approved for use until

☐ **Temporary Certificate of Occupancy**

The following conditions must be met no later than:
or the owner will be subject to fine or order to vacate:
This certificate has an expiration date of:
Conditions to be met:


Construction Official

Fee: \$0.00
Check Number: _____
Collected By: _____

Date Printed: 12/19/2007

Page 1



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723

Date Issued 12/19/2007
Control Number C-07-004955
Permit Number 07-3725
Permit Issue Date 11/28/2007
Certificate Number 07-3725

Certificate

Construction Code Division

(Certificate of Approval)

Identification

Work Site Location: 58 BROWER DR. Brick Township, NJ Block: 88.01 Lot: 5 Qual: _____
Owner In Fee: CANNAROZZO, ROBERTO & CAROLYN
Owner Address: 58 BROWER DR BRICK NJ 08723
Telephone: [REDACTED]
Contractor SEA BRIGHT SOLAR
Address 30 BEACH STREET SEA BRIGHT NJ 07760
Telephone: (732) 450-8852 Fax: (732) 450-1858
License Number or Builders Registration Number: 13VH01847600 Federal Emp. Number: _____

Home Warranty Number: _____

Type of Warranty Plan: ☐ State ☐ Private

Use Group: R-5 Construction Classification: _____

Maximum Live Load: 0 Maximum Occupancy Load: 0

Description of Work Used: SOLAR PANELS INSTALLATION OF 6.27 KW ROOF MOUNTED SOLAR ELECTRIC SYSTEM.

Certificate Comments:

☐ **Certificate of Occupancy**

This serves notice that said building or structure has been constructed in accordance with the New Jersey Uniform Construction Code and is approved for occupancy.

☒ **Certificate of Approval**

This serves notice that the work completed has been constructed or installed in accordance with the New Jersey Uniform Construction Code and is approved. If the permit was issued for minor work, this certificate was based upon what was visible at the time of inspection.

☐ **Certificate of Continued Occupancy**

This serves notice that based on a general inspection of the visible parts of the building there are no imminent hazards and the building is approved for continued occupancy.

☐ **Temporary Certificate of Compliance**

The following conditions must be met no later than or the owner will be subject to fine or order to vacate: This certificate has an expiration date of:

Conditions to be met:

☐ **Certificate of Clearance - Lead Abatement 5:17**

This serves notice that based on written certification, lead abatement was performed as per NJAC5:17 to the following extent.

- ☐ Total removal of lead-based paint hazards in scope of work
☐ Partial or limited time period (years); see file

☐ **Certificate of Clearance - Asbestos Abatement**

This serves notice that based on written certification, asbestos abatement was performed to the following extent.

- ☐ Total removal of asbestos hazards in scope of work
☐ Partial or limited time period (years); see file

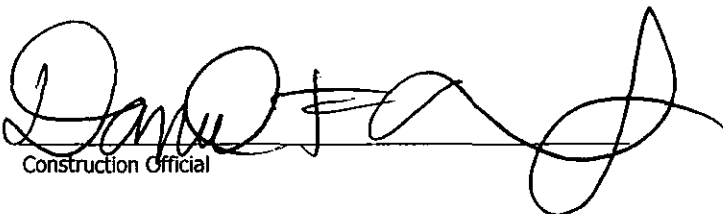
☐ **Certificate of Compliance**

This serves notice that said potentially hazardous equipment has been installed and/or maintained in accordance with the New Jersey Uniform Construction Code and is approved for use until

☐ **Temporary Certificate of Occupancy**

The following conditions must be met no later than: or the owner will be subject to fine or order to vacate: This certificate has an expiration date of:

Conditions to be met:


Construction Official

Fee: \$0.00
Check Number: _____
Collected By: _____

Date Printed: 12/19/2007

Page 1



CONSTRUCTION PERMIT

Date Issued

Permit #

IDENTIFICATION Block 88.01 Lot 5 Qualification Code _____
Work Site Location 58 Brewer Dr Contractor SeaBright Solar, LLC
Brick NJ 08734 Address 30 Beach Street
Owner in Fee Bob Cannarozzo SeaBright NJ 07760
Address 58 Brewer Dr Tel. (732) 450 8852
Brick NJ 08734 Lic. No. or Bldrs. Reg. No. 13VH01847600
Tel. (201) 481 3237

Is hereby granted permission to perform the following work:

- | | | |
|---|---|--|
| ☐ BUILDING | ☐ PLUMBING | ☐ LEAD HAZARD ABATEMENT |
| ☐ ELECTRICAL | ☐ FIRE PROTECTION | ☐ DEMOLITION |
| ☐ ELEVATOR DEVICES | ☐ ASBESTOS ABATEMENT | ☐ OTHER _____ |
- (Subchapter 8 only)

DESCRIPTION OF WORK:

NOTE: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.

Estimated Cost of Work \$ _____

Construction Official

Date

PAYMENTS (Office Use Only)

Building _____
Electrical _____
Plumbing _____
Fire Protection _____
Elevator Devices _____
Other _____
DCA State Permit Fee _____
Cert. of Occupancy _____
Other _____
Total _____
Check No. _____
Cash _____
Collected by _____

(see reverse side)



CONSTRUCTION PERMIT

Date Issued 11/28/2007
Control # C-07-004955
Permit # 07-3725

IDENTIFICATION Block: 88.01 Lot: 5 Qualifier
Work Site Location: 58 BROWER DR. Brick Township, NJ Contractor SEA BRIGHT SOLAR
Address 30 BEACH STREET SEA BRIGHT NJ 07760
Owner in Fee CANNAROZZO, ROBERTO & CAROLYN
58 BROWER DR BRICK NJ 08723 Telephone: (732) 450-8852
Lic. No. or Bldrs. Reg. No. 13VH01847600
Federal Employee. No.

Is hereby granted permission to perform the following work:

- ☒ BUILDING ☐ PLUMBING ☐ LEAD HAZARD ABATEMENT
☒ ELECTRICAL ☐ FIRE PROTECTION ☐ DEMOLITION
☐ ELEVATOR DEVICES ☐ ASBESTOS ABATEMENT (Subchapter 8 only) ☐ OTHER

DESCRIPTION OF WORK:

SOLAR PANELS INSTALLATION OF 6.27 KW ROOF MOUNTED SOLAR ELECTRIC SYSTEM.

Note: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.
Estimated Cost of Work \$48,000

Construction Official

Date

U.C.C. F170
equiv (rev 8/03)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

PAYMENTS (Office Use Only)

Building	\$72
Electrical	\$135
Plumbing	\$0
Fire Protection	\$0
Elevator Devices	\$0
Other	\$0.00
DCA Training Fee	\$65
CO Fee	
Other	\$0
Total	\$272
Check No.	2282
Cash	\$0
Credit	\$0
Collected By	Mary Jane Rinaldi

REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

☐ Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and /or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

☐ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

☐ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.



BUILDING SUBCODE TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 8801 Lot 5 Qualification Code _____
Work Site Location 58 Brewer Drive
Owner in Fee Bob Brewer
Address 58 Brewer Drive
City Brick NJ 08734
Tel. (732) 450 8852 FAX (732) 450 1858
Contractor See Bright 30 Beach Street NJ 08734
Address See Bright
Tel. (732) 450 8852 FAX (732) 450 1858
Contractor License No. or Builder Registration No. 13VHD01847000
Federal Emp. No. 731084148

JOB SUMMARY (Office Use Only)

PLAN REVIEW	Date	Initial	INSPECTIONS	Dates (Month/Day)			
			Type:	Failure	Failure	Approval	Initial
☐ No Plans Required			Footings				
☐ All			Footings Bonding				
☐ Footing			Foundation				
☐ Foundation			Slab				
☐ Frame			Frame				
☐ Other			Truss Sys./Bracing				
Joint Plan Review Required:			Barrier-Free				
☐ Elec. ☐ Plumb. ☐ Fire ☐ Elevator			Insulation				
SUBCODE APPROVAL			Finishes - Base Layer				
☐ CO ☐ CCO ☐ CA			Finishes - Final				
Date:			Energy				
			Mechanical				
Approved by:			TCO				
			Other				
			Final				
			Barrier-Free				

B. BUILDING CHARACTERISTICS

Use Group	Present	Proposed	Est. Cost of Bldg. Work:
Constr. Class	Present	Proposed	1. New Bldg. \$ <u>3000</u>
No. of Stories			2. Rehabilitation \$ <u>3000</u>
Height of Structure			3. Total (1+2) \$ <u>3000</u>
Area — Largest Floor			
New Bldg. Area/All Floors			
Volume of New Structure			
Total Land Area Disturbed			

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application.

Signature Bob Brewer President

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK

Installation of a 6.27 KW roof mounted Solar Electric System

TYPE OF WORK:

- ☐ New Building
- ☐ Addition
- ☐ Rehabilitation
- ☐ Roofing
- ☐ Siding
- ☐ Fence
- ☐ Sign
- ☐ Pool
- ☐ Asbestos Abatement Subchapter 8
- ☐ Lead Haz. Abatement NJAC 5:17
- ☒ Other Solar Electric
- ☐ Demolition

FEE (Office Use Only)

Administrative Surcharge	\$	
Minimum Fee	\$	
State Permit Surcharge Fee	\$	
TOTAL FEE	\$	



BUILDING SUBCODE TECHNICAL SECTION



Date Received 10/10/2007
Control # C-07-004955
Date Issued 11-28-07
Permit # 07-3925

A. IDENTIFICATION - APPLICANT: COMPLETE ALL APPLICABLE INFORMATION WHEN CHANGING CONTRACTORS. NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000

Block 88.01 Lot 5 Qualification Code

Work Site Location: 58 BROWER DR. Brick Township, NJ

Owner in Fee: CANNAROZZO, ROBERTO & CAROLYN

Address 58 BROWER DR. BRICK, NJ

Tel. [REDACTED]

Contractor: SEA BRIGHT SOLAR

Address 30 BEACH STREET SEA BRIGHT, NJ

Tel. (732) 450-8852 Fax. (732) 450-1858

Contractor License No. or, if new home, Bids Reg. No.

Federal Employee No.

JOB SUMMARY (Office Use Only)

PLAN REVIEW	Date	Initial
☒ No Plan Required	11-27-07	W
☐ All		
☐ Footing		
☐ Foundation		
☐ Frame		
☐ Other		
☐ Joint Plan Review Required		
☐ Elec. ☐ Plumb ☐ Fire ☐ Elevator		
SUBCODE APPROVAL		
☐ CO ☐ SCO ☐ PC		
Date: 11-27-07		
Approved by: [Signature]		

B. BUILDING CHARACTERISTICS

Use Group	Present	Proposed	Est. Cost of Bldg. Work:
Const. Class	Present 0	Proposed 0	1. New Bldg. \$0
Number of Stories			2. Rehabilitation \$3,000
Height of Structure			3. Total (1+2) \$3,000
Area - Largest Floor			
New Bldg. Area / All Floors			
Volume of New Structure			
Total Land Area Disturbed			

C. CERTIFICATION IN LIEU OF OATH
I hereby certify that I am the (agent of) owner of the record and am authorized to make this application.

Signature

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK
SOLAR PANELS, INSTALLATION OF 6.27 KW ROOF MOUNTED SOLAR ELECTRIC SYSTEM.

TYPE OF WORK

☐ New Building	
☐ Addition	
☒ Rehabilitation	
☐ Roofing	
☐ Siding	
☐ Fence	
☐ Sign	
☐ Pool	
☐ Asbestos Abatement Subchapter 8	
☐ Lead Haz Abatement NJAC 5:17	
☐ Other	
☐ Demolition	

FEE (Office Use Only)

Administrative Surcharge	\$0
Minimum Fee	\$0
State Permit Surcharge Fee	\$4
TOTAL FEE	\$76



**BUILDING SUBCODE
TECHNICAL SECTION**



A. IDENTIFICATION - APPLICANT: COMPLETE ALL APPLICABLE INFORMATION, WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000

Block 88.01 Lot 5 Qualification Code _____

Work Site Location: 58 BROWER DR. Brick Township, NJ

Owner in Fee: CANNARAZZO, ROBERTO & CAROLYN

Address 58 BROWER DR. BRICK, NJ

Contractor: SEA BRIGHT SOLAR

Address 30 BEACH STREET, SEA BRIGHT, NJ

Tel. (732) 450-8852

Fax. (732) 450-1858

Contractor License No. or, if new home, Bids Reg. No. _____

Federal Employee No. _____

JOB SUMMARY (Office Use Only)

PLAN REVIEW	Date	Initial
☒ No Plan Required	<u>11-27-07</u>	<u>W</u>
☐ All	_____	_____
☐ Footing	_____	_____
☐ Foundation	_____	_____
☐ Frame	_____	_____
☐ Other	_____	_____
☐ Joint Plan Review Required	_____	_____
☐ Elec. ☐ Plumb. ☐ Fire ☐ Elevator	_____	_____
SUBCODE APPROVAL		
☐ CO ☐ CCO ☐ CA	_____	_____
Date:	_____	_____
Approved by:	_____	_____

INSPECTIONS

Type:	Failure	Dates (Month/Day)	Approval	Initial
Footing	_____	_____	_____	_____
Footing-Bonding	_____	_____	_____	_____
Foundation	_____	_____	_____	_____
Slab	_____	_____	_____	_____
Frame	_____	_____	_____	_____
Truss Sys./Bracing	_____	_____	_____	_____
Barrier-Free	_____	_____	_____	_____
Insulation	_____	_____	_____	_____
Finishes-Base Layer	_____	_____	_____	_____
Finishes-Final	_____	_____	_____	_____
Energy	_____	_____	_____	_____
Mechanical	_____	_____	_____	_____
TCO	_____	_____	_____	_____
Other	_____	_____	_____	_____
Final	_____	_____	_____	_____
Barrier-Free	_____	_____	_____	_____

B. BUILDING CHARACTERISTICS

Use Group	Present <u>0</u>	Proposed <u>R-5</u>	Est. Cost of Bldg. Work:
Constr. Class	Present <u>0</u>	Proposed <u>0</u>	1. New Bldg. <u>\$0</u>
Number of Stories	_____	_____	2. Rehabilitation <u>\$3,000</u>
Height of Structure	_____ Ft.	_____ Ft.	3. Total (1+2) <u>\$3,000</u>
Area - Largest Floor	_____ Sq. Ft.	_____ Sq. Ft.	
New Bldg. Area / All Floors	_____ Sq. Ft.	_____ Sq. Ft.	
Volume of New Structure	_____ Cu. Ft.	_____ Cu. Ft.	
Total Land Area Disturbed	_____ Sq. Ft.	_____ Sq. Ft.	

C. CERTIFICATION IN LIEU OF OATH
I hereby certify that I am the (agent of) owner of the record and am authorized to make this application.

Signature _____

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK

SOLAR PANELS, INSTALLATION OF 6.27 KW ROOF MOUNTED SOLAR ELECTRIC SYSTEM.

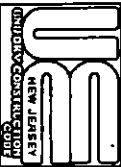
TYPE OF WORK

- ☐ New Building
- ☐ Addition
- ☒ Rehabilitation
- ☐ Roofing
- ☐ Siding
- ☐ Fence _____ Height (exceeds 6') _____ Sq. Ft.
- ☐ Sign _____
- ☐ Pool
- ☐ Asbestos Abatement Subchapter 8
- ☐ Lead Haz Abatement NJAC 5:17
- ☐ Other _____
- ☐ Demolition

FEE (Office Use Only)

Administrative Surcharge	_____	\$0
Minimum Fee	_____	\$0
State Permit Surcharge Fee	_____	\$4
TOTAL FEE	_____	\$76

Date Received 10/10/2007
Control # C-07-004955
Date Issued 11-28-07
Permit # 07-3725



ELECTRICAL SUBCODE TECHNICAL SECTION



A. IDENTIFICATION-APPLICANT: COMPLETE ALL APPLICABLE INFORMATION, WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 88.01 Lot 5 Qualification Code _____

Work Site Location 58 Avenue Drive

Owner in Fee: 6.08 CANNAAD220

T 58 Avenue Drive e-mail _____

Address 58 Avenue Drive Tel. (732) 9018320

Contractor: AK Electric e-mail _____

Address 20 Sunnyvale Rd. Plain NJ 07721 e-mail _____

Contractor License No. 8226 Exp. Date 4/10

Federal Employee No. 22-2757727 FAX: (732) 9018320

B. ELECTRICAL CHARACTERISTICS

Use Group Present _____ Proposed _____

☐ Pole/Pad # _____ ☐ Temporary ☐ Other _____

Building Occupied as _____ Utility Co. _____

Est. Cost of Elec. Work \$ 45000

JOB SUMMARY (Office Use Only)

PLAN REVIEW

☒ No Plans Required

Joint Plan Review Required:

☐ Building ☐ Plumbing

☐ Fire ☐ Elevator

☐ Elec. Plans Approved

Date: 10/18/07

Approved by: Wm

SUBCODE APPROVAL ☒ CA

Date: 12/17/07

Approved by: Wm

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on this application.

Applicant's Signature/Contractor's Seal and Signature

☒ Licensed Elec. Contractor ☐ Certifd Landscape Irrigation Contr ☐ Exempt Applicant

D. TECHNICAL SITE DATA

QTY. SIZE ITEMS

1 6KW Lighting Fixtures

Receptacles

Switches

Detectors

Light Poles

Motors-Fract. HP

Emergency & Exit Lights

Communications Points

Alarm Devices/F.A.C. Panel

TOTAL NUMBERS

Pool Permit/with UV Lights

Storable Pool/Spa/Hot Tub

KW Elec. Range/Receptacle

KW Oven/Surface Unit

KW Elec. Water Heater

KW Elec. Dryer/Receptacle

KW Dishwasher

HP Garbage Disposal

KW Central A/C Unit

HP/KW Space Heater/Air Handler

KW Baseboard Heat

HP Motors 1/4 HP

KW Transformer/Generator

AMP Service

AMP Subpanels

AMP Motor Control Center

KW Elec. Sign/Outline Light

Date Received

01-3725

Control #

11-28-07

Date Issued

11-28-07

Permit #

FEE (Office Use Only)

Administrative Surcharge \$
Minimum Fee \$
State Permit Surcharge Fee \$
TOTAL FEE \$

12-12-07

MIXED BREAKER MUST MATCH MANUFACTURER OF PANEL
STAP ENT BELOW PA INVERTER

Bldg

Elect

Fire

Plumbing

(Please mark subcode)

CONTROL NUMBER 4955

TOWNSHIP OF BRICK
APPLICATION REVIEW PROCESS

Resubmitt
7/10/07
11/2/08

ADDRESS OF APPLICATION: 58 Brewer

DATE REVIEWED: 10-10-07

REVIEWED BY: FM

CONTACT CALLED/FAXED: 450-8852 @ 3.10 left message

Architect Design Required (Site Specific)



ALLAN H. BORST
ARCHITECT

AMERICAN INSTITUTE OF ARCHITECTS MEMBER

1792 HINDS ROAD
TOMS RIVER, NJ 08753

PHONE • 732.255.2713

FAX • 732.782.0298

E-MAIL • ALLAN.B@AHBARCHITECT.COM

WEB SITE • WWW.AHBARCHITECT.COM

November 26, 2007

Brick Township Building Department
401 Chambersbridge Road
Brick Township, New Jersey 08723

Reference project: Cannarozzo Residence, 58 Brower Drive, "Sandy Point", Brick Township, NJ

Re: Solar panel system installation.

Attention: Mr. Frank Mizer, Building Sub-Code Official.

Dear Frank,

This letter is in regard to certification of the proposed installation of a solar panel system for the above referenced project by Sea Bright Solar.

I have reviewed the Unirac, Inc mounting system catalog cut sheets sent herewith and specification which states that all members shall have a clear anodized finish warranted for five (5) years and the frame materials for ten (10) years. Each "L" mounting bracket shall be fastened to the roof by 5/16" x 4' lag bolts screwed directly into each 2" x 10" rafter.

The total equipment weight is (3) three pounds per square foot. The roof existing roof framing system is 2" x 10" @16" on center which provides a design load of 50 pounds per square foot > 43 proposed.

I find the Unirac Inc. anchor system for the solar panel equipment to be acceptable.

If you have any further questions regarding this matter, please do not hesitate to contact this office.

Sincerely,

Allan H. Borst AIA
NJ Registration No. 12171



ALLAN H. BORST
ARCHITECT

AMERICAN INSTITUTE OF ARCHITECTS MEMBER

1792 HINDS ROAD
TOMS RIVER, NJ 08753

PHONE • 732.255.2713
FAX • 732.782.0298

E-MAIL • ALLAN.B@AHBARCHITECT.COM
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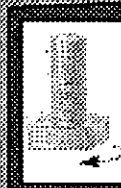
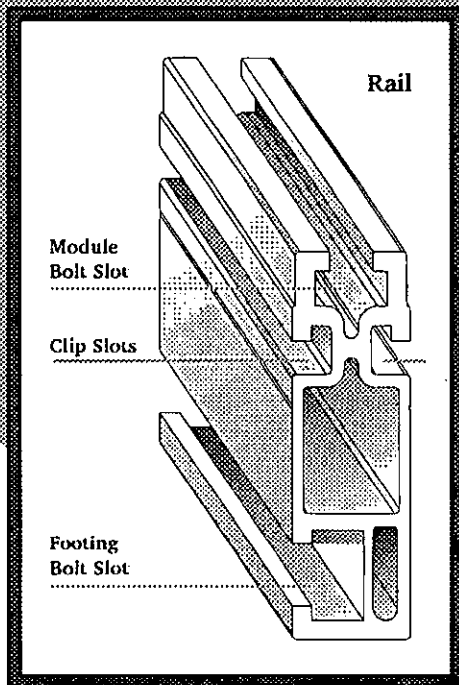
Allan H. Borst AIA
NJ Registration No. 12171

SOLARMOUNT®

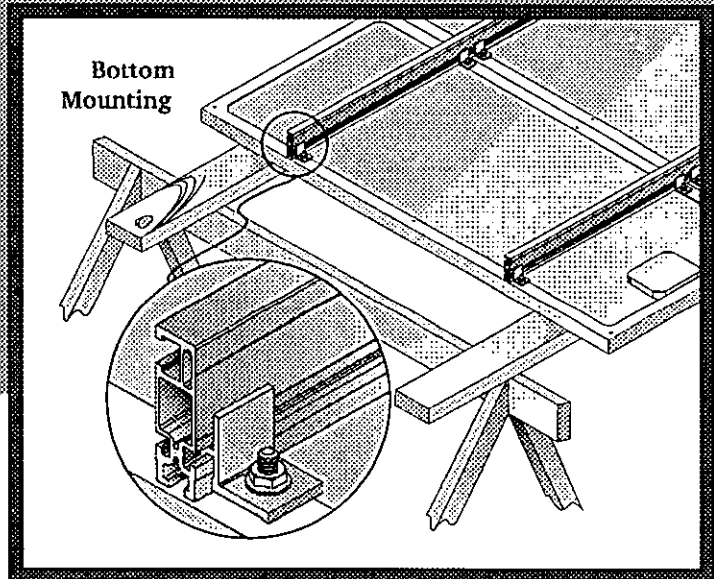
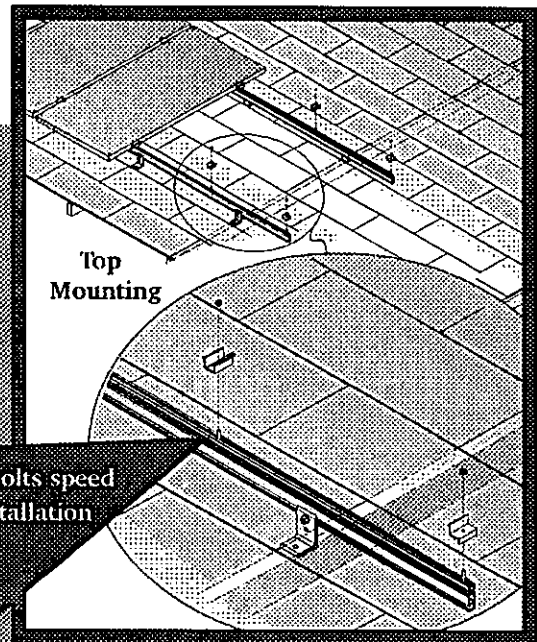
PV MODULE MOUNTING SYSTEM

Versatile Components Give You Choices

The choice is yours. Attach your modules directly to SolarMount on the roof or pre-assemble modules and rails and attach to the footings afterward.



T-bolts speed installation



SolarMount® Rails

The heart of the system. Four mounting slots in the SolarMount® rail give you ultimate flexibility for module mounting and foot placement. Clamp modules to the rails from the top, freeing yourself from the constraint of the module mounting holes. Or clip and bolt modules from the bottom to either side of the rail. The footing bolt slot gives you complete freedom of footing placement. You'll always be able to hit the rafter.

Top Mounting Clamps

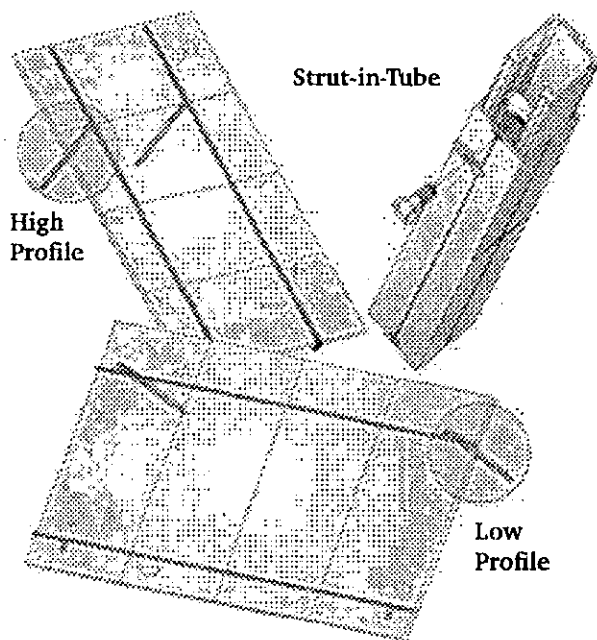
Mount your modules to the rail from the top. This is ideal for flush mount applications, such as residential rooftops, where it is most convenient to pre-assemble rails and footings before installing modules.

Clamps also free you from the constraints of module mounting holes. Achieve a secure attachment anywhere along a module's frame.

Bottom Mounting Clips

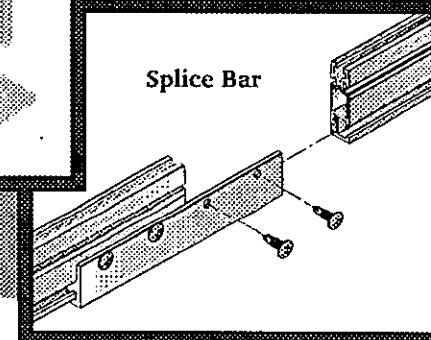
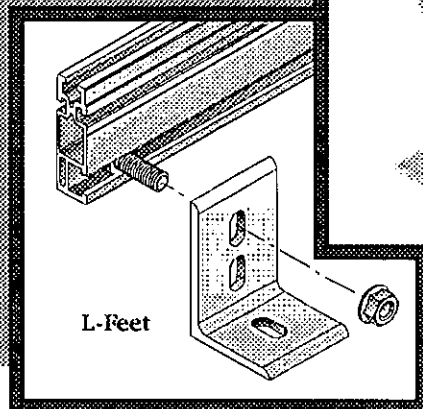
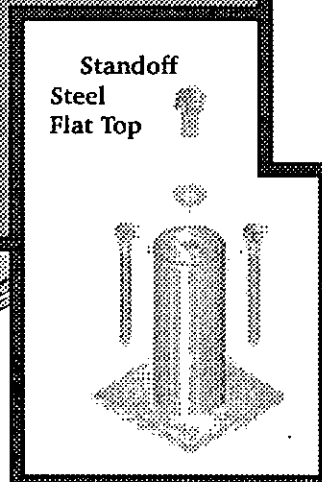
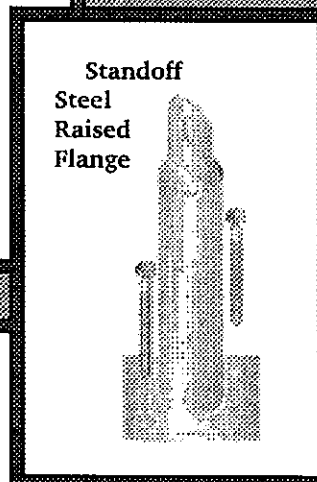
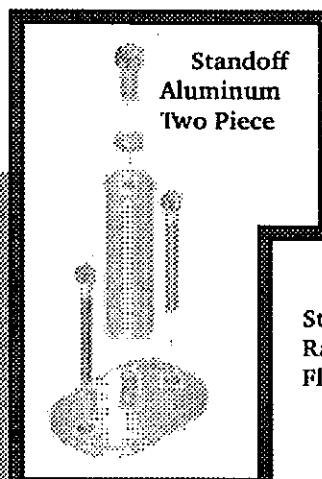
Use bottom mounting clips whenever you prefer to attach rails directly to the module mounting holes. Simply fit the clip into its rail slot over the mounting bolt for a secure connection.

Adjust the clip position anywhere within the rail slot. Alignment of rails to module mounting holes is always easy and convenient.



Flexible Components Speed Installation

Whether your array is ground mounted or roof mounted, flush mounted or tilted up, there are SolarMount footings and legs to meet your needs.



Strut-in-Tube Style Legs

Quickly set the precise tilt angle required. Styles are available for **high profile** (1 or 2 legs per rail) and **low profile** installations. Each series offers three leg lengths so that you can adjust to exactly the tilt angle you want – up to a maximum of 60 degrees – without cutting and drilling at the job site.

L-feet

Standard for ground mount installations. Use them in many residential rooftop installations as well, particularly with asphalt composition shingles, and in many commercial roofing applications.

Rail mounting holes are at two heights. In flush mounts, use the upper hole to raise the modules and promote air flow for cooling. Where aesthetics are the greater concern, use the lower hole to keep the modules close to the roof.

Standoffs and Splices

Use standoffs whenever flashed installations are required—on tile roofs, for example. Our new two-piece **aluminum standoff** allows precise placement of a flashing over a secured base prior to the installation of the standoff itself.

All three types come in a range of standard heights—3, 4, 6, or 7 inches. Choose a flashing that's a perfect mate for your standoff and roof type.

Splice Bars slide into the footing bolt slots of SolarMount® rail sections, joining rails end-to-end in long, flush or low profile installations.

SOLARMOUNT®

PV MODULE MOUNTING SYSTEM

Modules

The SolarMount® system supports most major PV module manufacturers.

BP Solar, Evergreen, First Solar, GE Energy, Isotcon, Kaneka, Kyocera, Mitsubishi, Photowatt, RWE Schott, Sanyo, Sharp, Shell, SunWize, UniSolar.

Resources

Download's from the SolarMount® site at www.unirac.com

SolarMount® Estimator: An Excel worksheet to generate quick price estimates as you consider potential configurations.

SolarMount® Material Price List and Pricing Chart: All ordering options in one place.

Installation Manual 2.1.4: SolarMount® Code-Compliant Planning and Assembly (with PE certification)

Installation Manual: High Profile Tilt Legs, Low Profile Tilt Legs

Installation Manual: Splines, Shims, Security Hardware, Hanger Bolts, Galling and its Prevention

Code Compliance

The SolarMount® system is PE certified to meet Uniform and California building codes. Our documentation supports your permit application.

SolarMount® Component Specifications

SolarMount® rails, top-mounting clamps, bottom-mounting clips, tilt legs, L-feet, and two-piece standoffs: 6105-T5 aluminum extrusion.

One-piece standoffs: Service Condition 4 (very severe) zinc-plated, welded steel.

Fasteners: 304 stainless steel.

UNIRAC

THE STANDARD IN PV MOUNTING STRUCTURES™

UniRac, Inc.
www.unirac.com

3201 University Boulevard SE, Suite 110
Albuquerque NM 87106-5635 USA

505.242.6411
505.242.6412 Fax

Pub 041004-1ds • November 2004
© 2004 UniRac, Inc. All rights reserved

10 year limited Product Warranty, 5 year limited Finish Warranty

UniRac, Inc., warrants to the original purchaser ("Purchaser") of product(s) that it manufactures ("Product") at the original installation site that the Product shall be free from defects in material and workmanship for a period of ten (10) years, except for the anodized finish, which finish shall be free from visible peeling, or cracking or chalking under normal atmospheric conditions for a period of five (5) years, from the earlier of 1) the date the installation of the Product is completed; or 2) 30 days after the purchase of the Product by the original Purchaser ("Finish Warranty").

The Finish Warranty does not apply to any foreign residue deposited on the finish. All installations in corrosive atmospheric conditions are excluded. The Finish Warranty is VOID if the practices specified by AAMA 609 & 610-02 - "Cleaning and Maintenance for Architecturally Finished Aluminum" (www.aamanet.org) are not followed by Purchaser. This Warranty does not cover damage to the Product that occurs during its shipment, storage, or installation.

This Warranty shall be VOID if installation of the Product is not performed in accordance with UniRac's written installation instructions, or if the Product has been modified, repaired, or reworked in a manner not previously authorized by UniRac IN WRITING, or if the Product is installed in an environment for which it was not designed. UniRac shall not be liable for consequential, contingent or incidental damages arising out of the use of the Product by Purchaser under any circumstances.

If within the specified Warranty periods the Product shall be reasonably proven to be defective, then UniRac shall repair or replace the defective Product, or any part thereof, in UniRac's sole discretion. Such repair or replacement shall completely satisfy and discharge all of UniRac's liability with respect to this limited Warranty. Under no circumstances shall UniRac be liable for special, indirect or consequential damages arising out of or related to use by Purchaser of the Product.

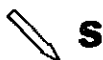
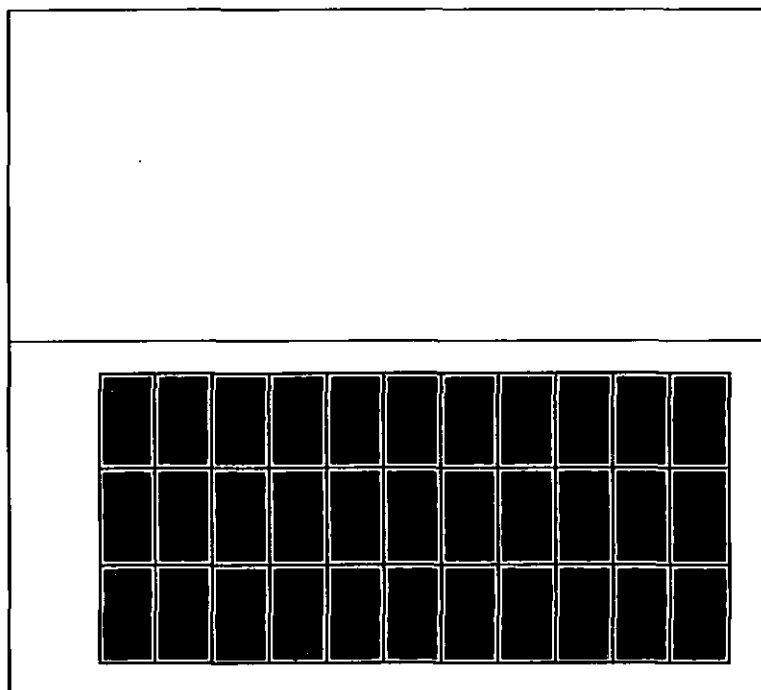
Manufacturers of related items, such as PV modules and flashings, may provide written warranties of their own. UniRac's limited Warranty covers only its Product, and not any related items.

Location:
Bob Cannarozzo
58 Brower Drive
Brick, NJ

Installer:
Brian Kelly
Sea Bright Solar LLC
(732) 693-7843

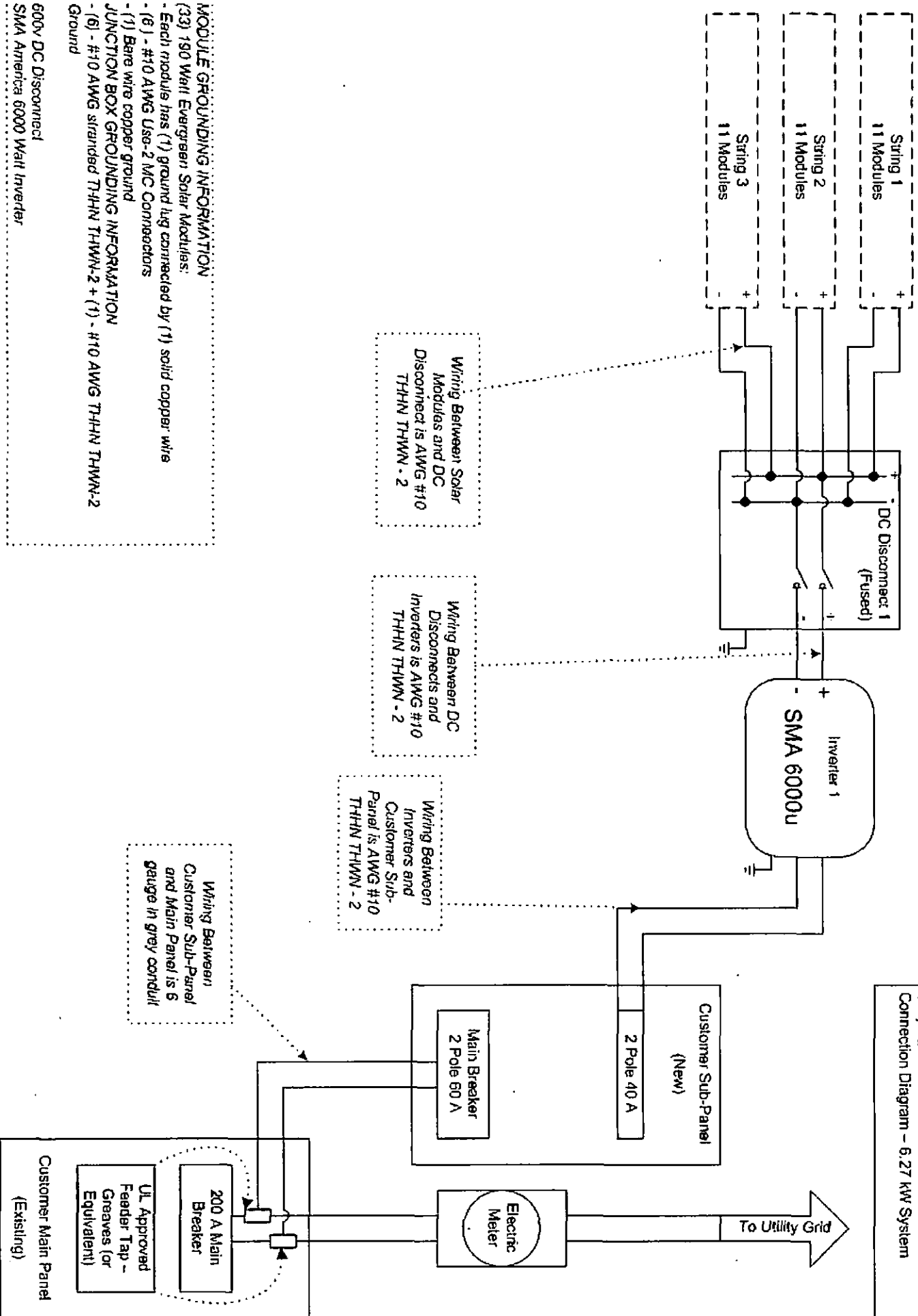
Site Map for Installation of (33) 190 watt
solar modules (6.27 kw system)

*DC DISCONNECT, (1) 6000 WATT INVERTER
SUB-PANEL AND MAIN PANEL IN GARAGE*



Installer: Brian Kelly Sea Bright Solar LLC. (732) - 963 - 7843	Location: Bob Cannerozzo 58 Brower Dr Brick, N.J.
---	---

Subject:
 Connection Diagram - 6.27 kW System



MODULE GROUNDING INFORMATION

(33) 190 Watt Evergreen Solar Modules:
 - Each module has (1) ground lug connected by (1) solid copper wire

- (8) - #10 AWG Usa-2 MC Connectors

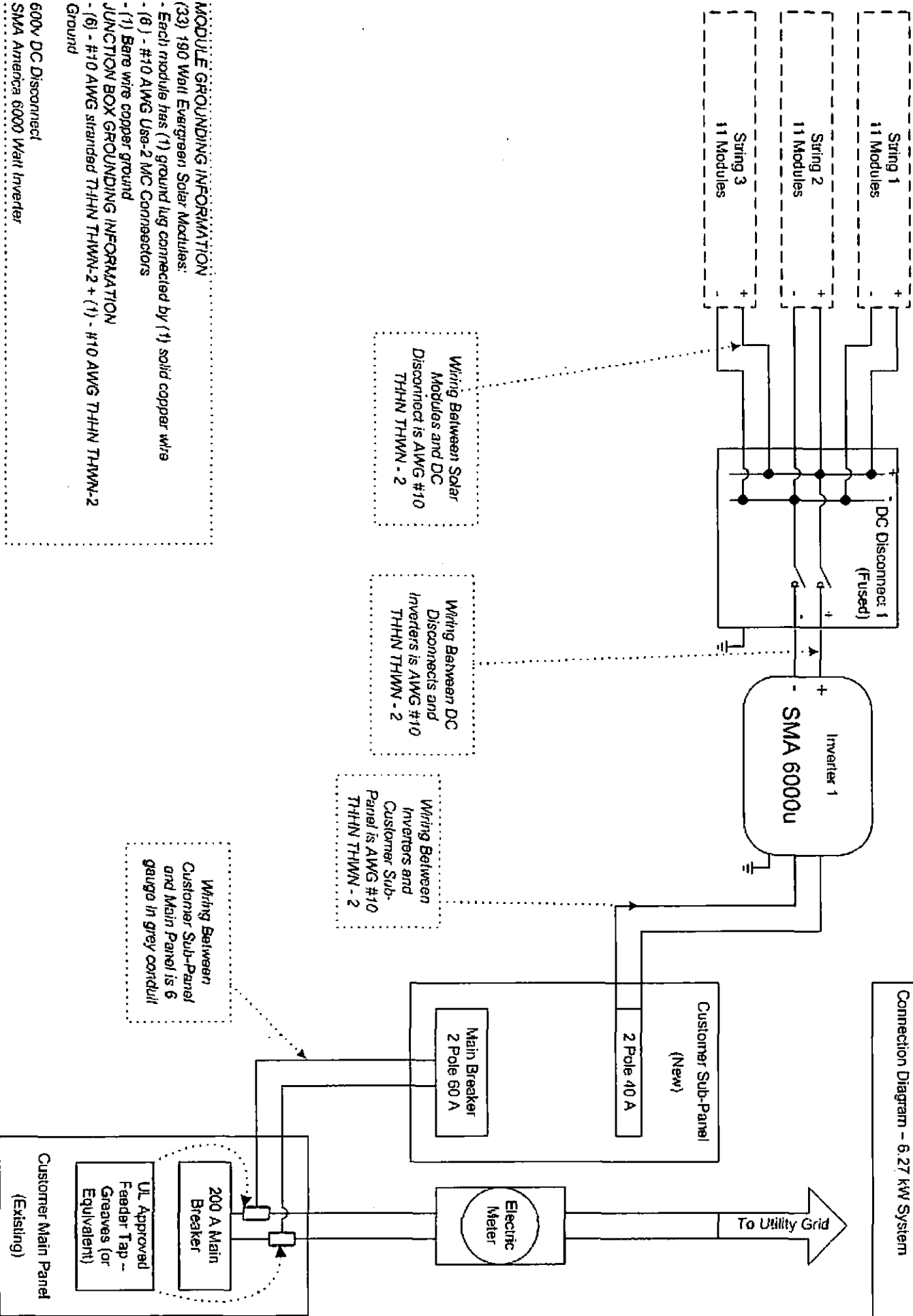
- (1) Bare wire copper ground

JUNCTION BOX GROUNDING INFORMATION
 - (6) - #10 AWG stranded THHN THWN-2 + (1) - #10 AWG THHN THWN-2 Ground

600v DC Disconnect
 SMA America 6000 Watt Inverter

Installer: Brian Kelly Sea Bright Solar LLC. (732) - 963 - 7843	Location: Bob Cannarozzo 58 Brower Dr Brick, N.J.
---	---

Subject: Connection Diagram - 6.27 kW System
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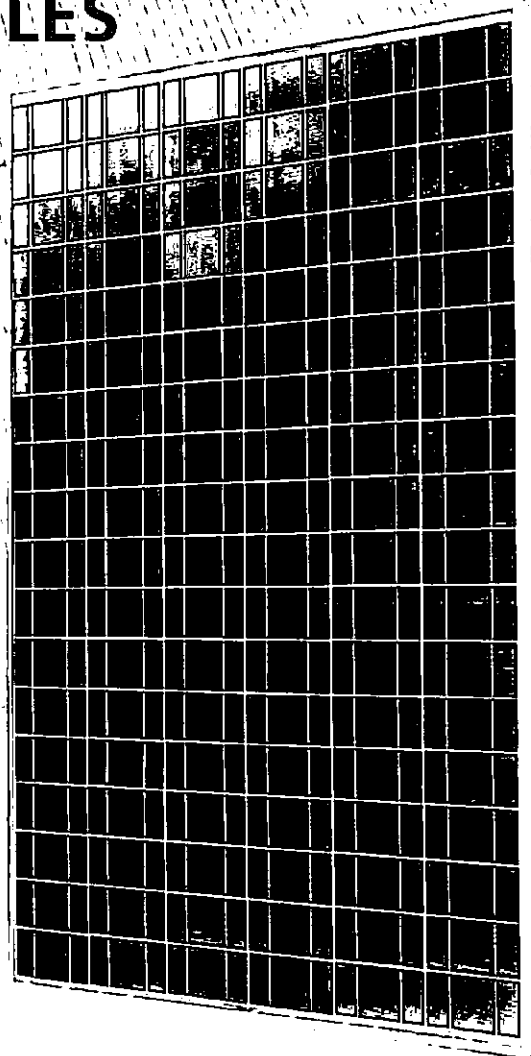
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600V DC Disconnect
 SMA America 6000 Watt Inverter

SPRUCE LINE™ PHOTOVOLTAIC MODULES

Producing our own wafers, cells and modules assures that the highest quality components go into every one of our panels. And since they are made with String Ribbon™ technology, our panels take advantage of one of the newest, fastest-growing, most environmentally friendly manufacturing processes available in the world.

Evergreen Solar is a fully integrated, independent company. Solar is our only business. Our commitment to the environment is matched only by our commitment to our customers. If, like us, you want the best in solar, make the pure choice ... Evergreen Solar panels.



Advanced Technology with Promise for the Future

- String Ribbon™ polycrystalline solar cells outperform thin films and achieve comparable performance to bulk crystalline technologies while using half as much silicon.
- The proprietary cell fabrication process is among the most environmentally friendly in the business.

Predictable, Reliable, Long-Term Performance

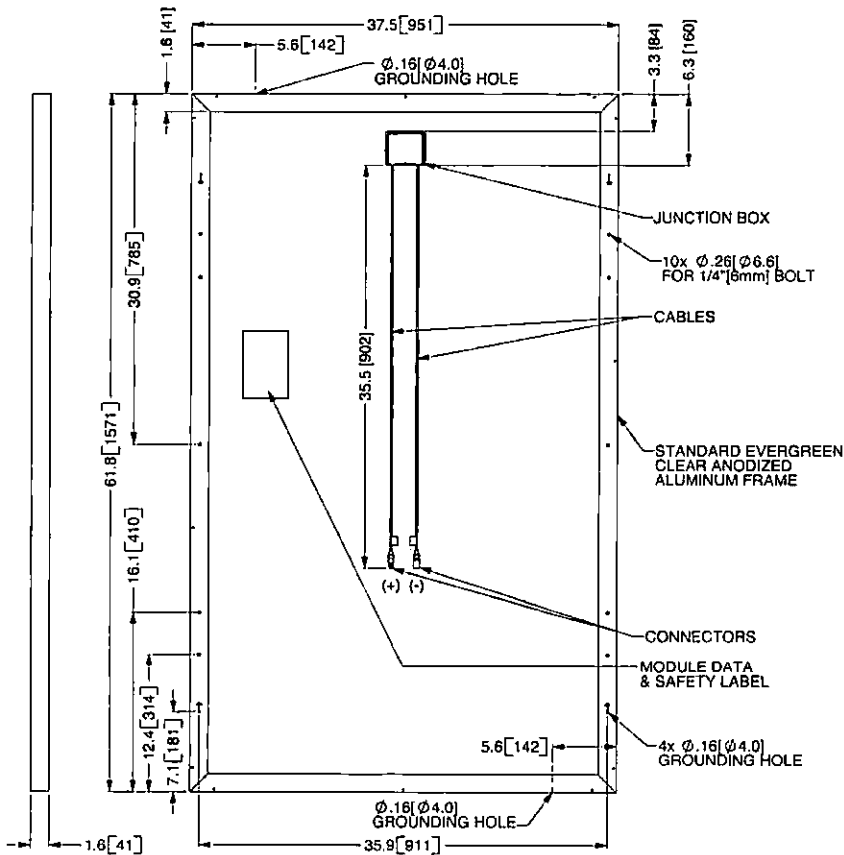
- Each module is individually tested to ensure field performance meets or exceeds specifications.
- Solar cells are matched to reduce internal losses and the possibility of hot spots.
- Industry standard EVA (Ethyl Vinyl Acetate) and Tedlar™ construction protects solar cells from mechanical and environmental stress.

Designed for Demanding Applications

- Aluminum frame with double-wall construction on all four sides and no protruding screws offers greater mounting flexibility.
- 1000V (TÜV) backskin for large or high voltage systems.
- High packing density and white backskin for improved module efficiency.
- Anti-reflective-coated glass for improved power output and energy production.
- Sealed junction box never needs maintenance.
- -2% tolerance on peak power rating.
- Factory-installed wires, connectors and bypass diodes.
- Environmentally-friendly bulk packaging.

Spruce Line 170/180/190

Designed for maximum performance; safe, reliable, versatile and easy to install.



ELECTRICAL SPECIFICATIONS*

	ES-170-RL	ES-180-RL	ES-190-RL
Pp (W)	170	180	190
Vp (V)	25.3	25.9	26.7
Ip (A)	6.72	6.95	7.12
Voc (V)	32.4	32.6	32.8
Isc (A)	7.55	7.78	8.05
Eff**	11.4%	12.0%	12.7%
Cells	108		
Maximum Series Fuse	15A		
UL Rated System Voltage	600V		
TÜV Rated System Voltage	1000V		

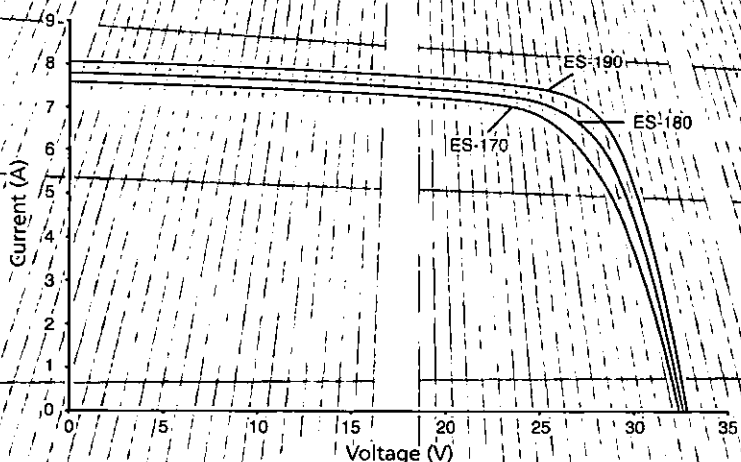
*At STC (Standard Test Conditions): 1000 W/m², 25° C cell temperature, AM 1.5 spectrum. Minimum Specified Power Rating is 2% below Pp, other specifications are +/-10%. Specifications subject to change without notice. 25 year limited power warranty. Complete warranty available on request or online at www.evergreensolar.com.

**Module Efficiency calculated on Pp and module exterior dimensions.

Weight: 40.1 lb [18.2 kg]

Dimensions: inches [mm]

I-V CHARACTERISTICS*



TEMPERATURE EFFECTS

Pp -0.51%/°C Isc 0.05%/°C
Voc -0.35%/°C NOCT 47°C

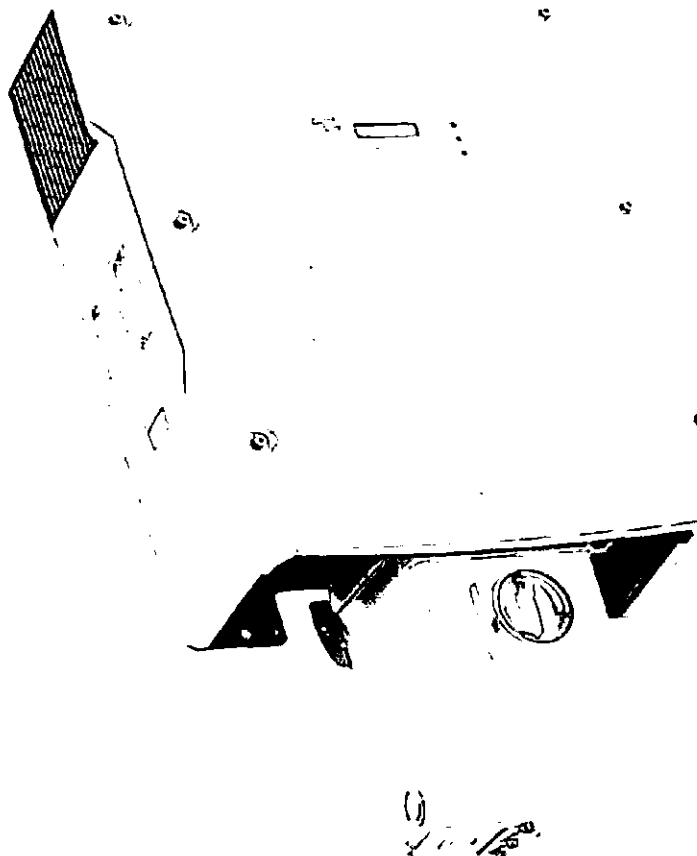
SAFETY AND QUALITY TESTS

- IEC 61215: Edition 2 Certified
- LISTED Class C Fire Rating
- TÜV Safety Class II Certified
- CE

SB 5000US / SB 6000US / SB 7000US



- > Certified to the new
UL 1741/IEEE 1547
- > 10 yr. standard warranty
- > Highest CEC efficiency
in its class
- > Integrated load-break
rated AC and DC
disconnect switch
- > Integrated fused series
string combiner
- > Sealed electronics
enclosure & Opticool
- > Comprehensive SMA
communications and
data collection options
- > Ideal for residential or
commercial applications
- > Sunny Tower
compatible



Sunny Boy 5000 / 6000 / 7000

The best in their class

SMA is proud to introduce our new line of inverters updated with our latest technology and designed specifically to meet the new IEEE 1547 requirements. The SB6000U and SB7000U are also compatible with SMA's new Sunny Tower. Increased efficiency means better performance and shorter payback periods. All three models are field-configurable for positive ground systems making them more versatile than ever. With over 500,000 fielded units, Sunny Boy has become the benchmark for PV inverter performance and reliability throughout the world.

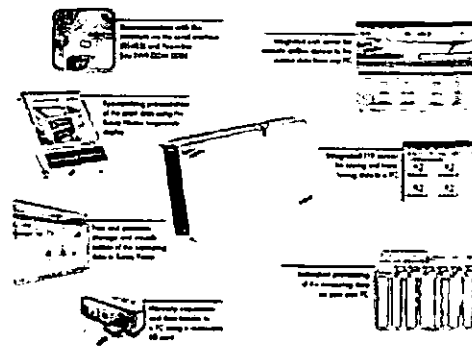
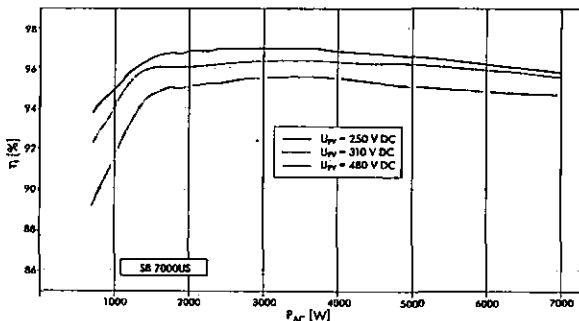


Technical Data

Sunny Boy 5000 / 6000 / 7000

	SB 5000US	SB 6000US	SB 7000US
Input Data (DC)			
Max. Recommended Array Input Power (DC @ STC)	6250 W	7500 W	8750 W
Max. DC Voltage	600 V	600 V	600 V
Peak Power Tracking Voltage	250 – 480 V	250 – 480 V	250 – 480 V
DC Max. Input Current	21 A	25 A	30 A
DC Voltage Ripple	< 5%	< 5%	< 5%
Number of Fused String Inputs	4	4	4
PV Start Voltage (adjustable)	300 V	300 V	300 V
Output Data (AC)			
AC Nominal Power	5000 W	6000 W	7000 W
AC Maximum Output Power	5000 W	6000 W	7000 W
AC Maximum Output Current (@ 208, 240, 277 V)	24 A, 20.8 A, 18 A	29 A, 25 A, 21.6 A	34 A, 29 A, 25.3 A
AC Nominal Voltage / Range	183 – 229 V @ 208 V	183 – 229 V @ 208 V	183 – 229 V @ 208 V
	211 – 264 V @ 240 V	211 – 264 V @ 240 V	211 – 264 V @ 240 V
	244 – 305 V @ 277 V	244 – 305 V @ 277 V	244 – 305 V @ 277 V
AC Frequency / Range	60 Hz / 59.3 Hz – 60.5 Hz	60 Hz / 59.3 Hz – 60.5 Hz	60 Hz / 59.3 Hz – 60.5 Hz
Power Factor	1	1	1
Efficiency			
Peak Inverter Efficiency	96.8 %	97.0 %	97.1 %
CEC weighted Efficiency	95.5 % @ 208 V	95.5 % @ 208 V	95.5 % @ 208 V
	95.5 % @ 240 V	95.5 % @ 240 V	96.0 % @ 240 V
	95.5 % @ 277 V	96.0 % @ 277 V	96.0 % @ 277 V
Mechanical Data			
Dimensions W x H x D in inches	18.4 x 24.1 x 9.5	18.4 x 24.1 x 9.5	18.4 x 24.1 x 9.5
Weight / Shipping Weight	143 lbs / 154 lbs	143 lbs / 154 lbs	143 lbs / 154 lbs
Ambient temperature range	-13 to +113 °F	-13 to +113 °F	-13 to +113 °F
Power Consumption: standby / nighttime	< 7 W / 0.25 W	< 7 W / 0.25 W	< 7 W / 0.25 W
Topology	PWM, true sinewave, current source	PWM, true sinewave, current source	PWM, true sinewave, current source
Cooling Concept	Convection with regulated fan cooling	Convection with regulated fan cooling	Convection with regulated fan cooling
Mounting Location Indoor / Outdoor (NEMA 3R)	●/●	●/●	●/●
Features			
LCD Display	●	●	●
Lid Color: aluminum / red / blue / yellow	●/○/○/○	●/○/○/○	●/○/○/○
Communication: RS485 / Wireless	○/○	○/○	○/○
Warranty: 10-year	●	●	●
Compliance: IEEE-929, IEEE-1547, UL 1741, UL 1998, FCC Part 15 A & B	●	●	●
Specifications for nominal conditions	● Included ○ Option — Not available		

Efficiency Curves



www.sma-america.com
Phone 530-273-4895
Toll Free 888-4SMAUSA

SMA America, Inc.

UniRAC

THE STANDARD IN PV MOUNTING STRUCTURES

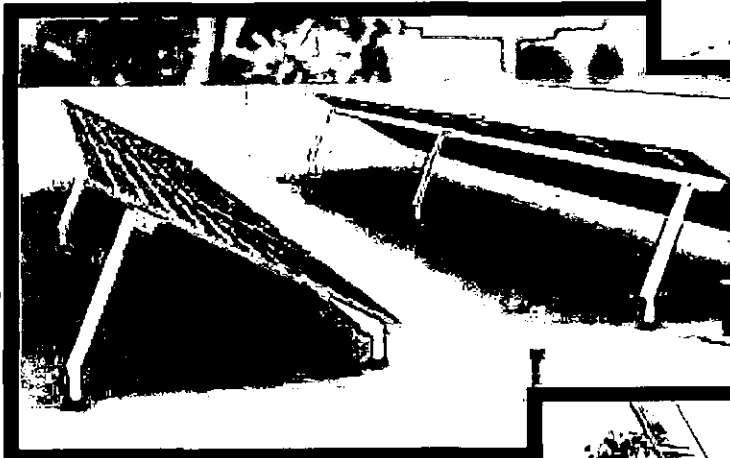
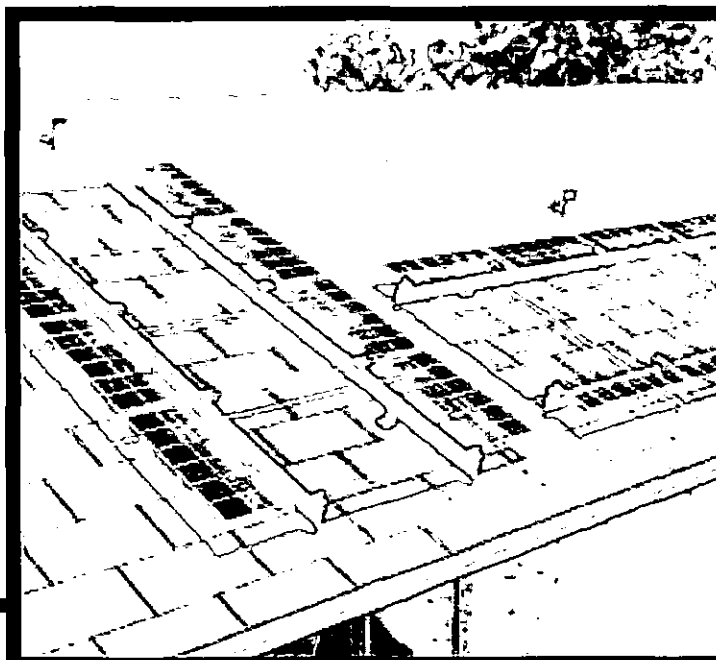
SOLARMOUNT®

PV MODULE MOUNTING SYSTEM

A Configuration for Any Location

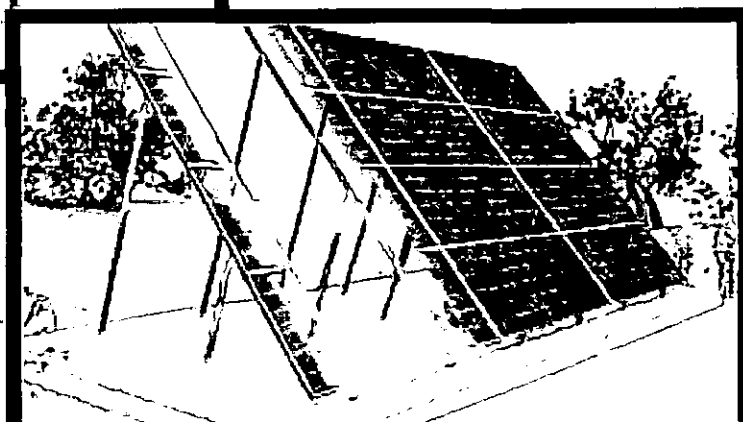
The SolarMount system is engineered for the maximum flexibility possible in designing, locating, and installing your PV array.

On the roof or on the ground, SolarMount components assemble into structures that support a variety of PV array configurations. Design for high profile or low - whichever suits your unique site - without worries that it won't meet code.



- △ Residential Roofs - Mount flush on a pitched roof where aesthetics are critical.
- ◁ Commercial Roofs - Install at a low slope, remaining invisible behind a parapet.
- ▽ Ground Mounts - Base an array on any type of footing or pad.

U.S. Des. Patent No. D496,248S, D496,249S.
Other patents pending.



SOLARMOUNT®

PV MODULE MOUNTING SYSTEM

Modules

Use SolarMount with PV panels from all major manufacturers

BP Solar, Evergreen, First Solar, GE Energy, Isofoton, Kaneka, Kyocera, Mitsubishi, Photowatt, RWE Schott, Sanyo, Sharp, Shell, SunWize, UniSolar

Resources

Downloads from the SolarMount page at www.unirac.com

SolarMount Estimator An Excel worksheet to generate quick price estimates as you consider potential configurations

SolarMount Master Price List and Sizing Chart All ordering options in one place

Installation Manual 214 SolarMount® Code-Compliant Planning and Assembly (with PE certification)

Installation Manuals High Profile Tilt Legs, Low Profile Tilt Legs

Installation Sheets Splices, Shims, Security Hardware, Hanger Bolts, Galling and Its Prevention

Code Compliance

The SolarMount® system is PE certified to meet Uniform and California building codes. Our documentation supports your permit application.

SolarMount® Component Specifications

SolarMount® rails, top-mounting clamps, bottom-mounting clips, tilt legs, L-feet, and two-piece standoffs: 6105-T5 aluminum extrusion.

One-piece standoffs: Service Condition 4 (very severe) zinc-plated, welded steel.

Fasteners: 304 stainless steel.

UNI-RAC®

THE STANDARD IN PV MOUNTING STRUCTURES™

UniRac, Inc.

www.unirac.com

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Albuquerque NM 87106-5635 USA

505.242.6411

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Pub 041004-1ds • November 2004

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10 year limited Product Warranty, 5 year limited Finish Warranty

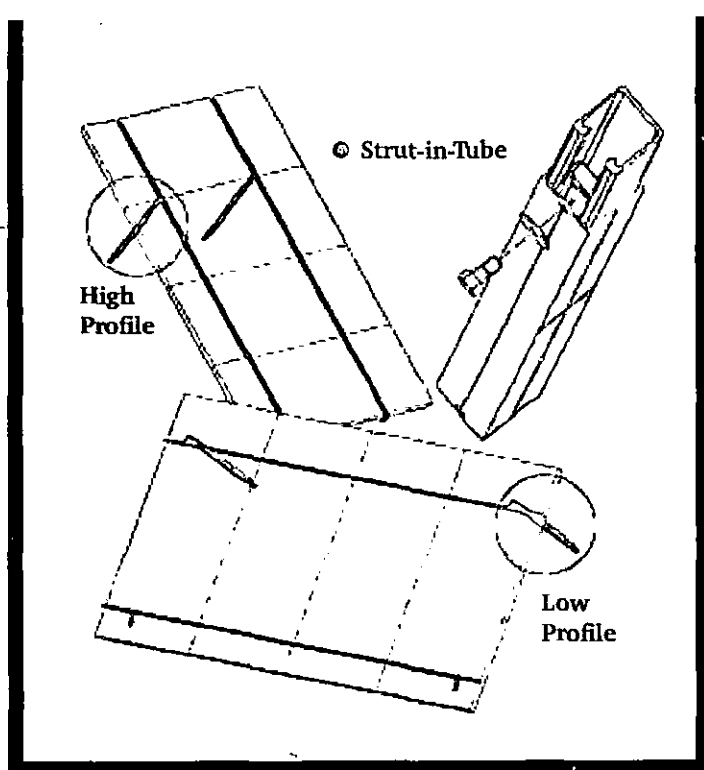
UniRac, Inc., warrants to the original purchaser ("Purchaser") of product(s) that it manufactures ("Product") at the original installation site that the Product shall be free from defects in material and workmanship for a period of ten (10) years, except for the anodized finish, which finish shall be free from visible peeling, or cracking or chalking under normal atmospheric conditions for a period of five (5) years, from the earlier of 1) the date the installation of the Product is completed, or 2) 30 days after the purchase of the Product by the original Purchaser ("Finish Warranty").

The Finish Warranty does not apply to any foreign residue deposited on the finish. All installations in corrosive atmospheric conditions are excluded. The Finish Warranty is VOID if the practices specified by AAMA 609 & 610-02 - "Cleaning and Maintenance for Architecturally Finished Aluminum" (www.aamanet.org) are not followed by Purchaser. This Warranty does not cover damage to the Product that occurs during its shipment, storage, or installation.

This Warranty shall be VOID if installation of the Product is not performed in accordance with UniRac's written installation instructions, or if the Product has been modified, repaired, or reworked in a manner not previously authorized by UniRac IN WRITING, or if the Product is installed in an environment for which it was not designed. UniRac shall not be liable for consequential, contingent or incidental damages arising out of the use of the Product by Purchaser under any circumstances.

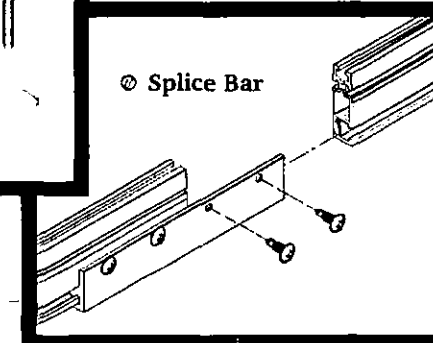
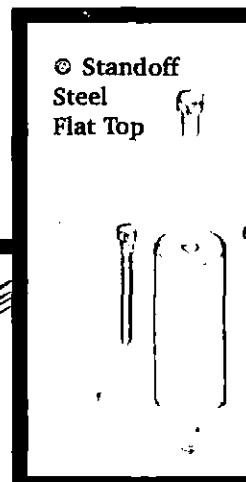
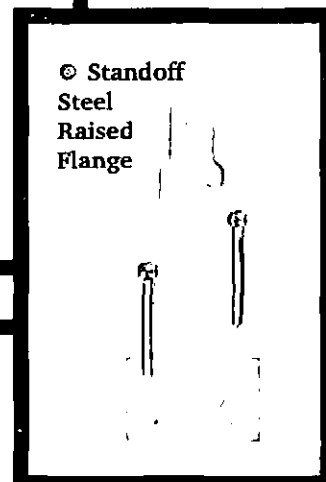
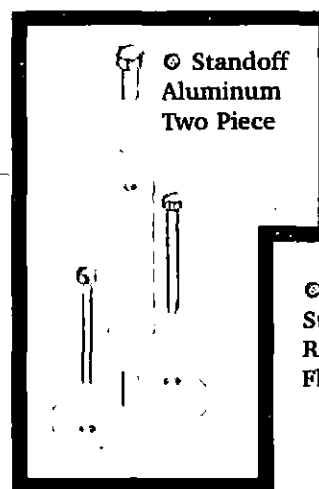
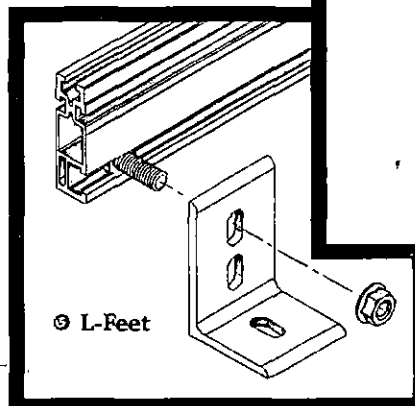
If within the specified Warranty periods the Product shall be reasonably proven to be defective, then UniRac shall repair or replace the defective Product, or any part thereof, in UniRac's sole discretion. Such repair or replacement shall completely satisfy and discharge all of UniRac's liability with respect to this limited Warranty. Under no circumstances shall UniRac be liable for special, indirect or consequential damages arising out of or related to use by Purchaser of the Product.

Manufacturers of related items, such as PV modules and flashings, may provide written warranties of their own. UniRac's limited Warranty covers only its Product, and not any related items.



Flexible Components Speed Installation

Whether your array is ground mounted or roof mounted, flush mounted or tilted up, there are SolarMount footings and legs to meet your needs.



Strut-in-Tube Style Legs

☉ Quickly set the precise tilt angle required. Styles are available for **high profile** (1 or 2 legs per rail) and **low profile** installations. Each series offers three leg lengths so that you can adjust to exactly the tilt angle you want – up to a maximum of 60 degrees – without cutting and drilling at the job site.

L-feet

☉ Standard for ground mount installations. Use them in many residential rooftop installations as well, particularly with asphalt composition shingles, and in many commercial roofing applications.

Rail mounting holes are at two heights. In flush mounts, use the upper hole to raise the modules and promote air flow for cooling. Where aesthetics are the greater concern, use the lower hole to keep the modules close to the roof.

Standoffs and Splices

☉ Use standoffs whenever flashed installations are required—on tile roofs, for example. Our new two-piece **aluminum standoff** allows precise placement of a flashing over a secured base prior to the installation of the standoff itself.

All three types come in a range of standard heights—3, 4, 6, or 7 inches. Choose a flashing that's a perfect mate for your standoff and roof type.

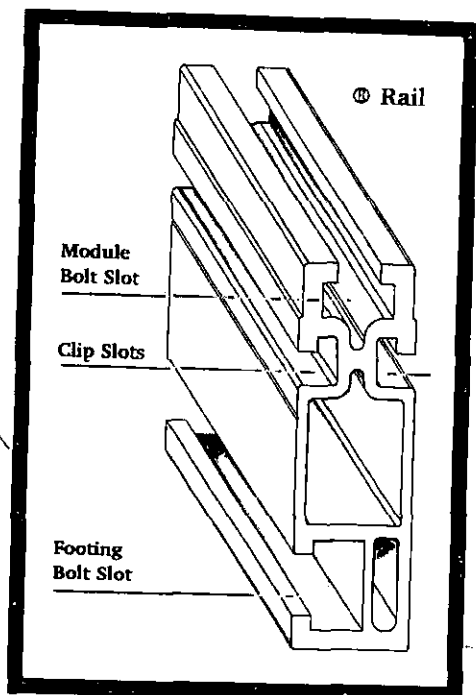
☉ **Splice Bars** slide into the footing bolt slots of SolarMount® rail sections, joining rails end-to-end in long, flush or low profile installations.

SOLARMOUNT®

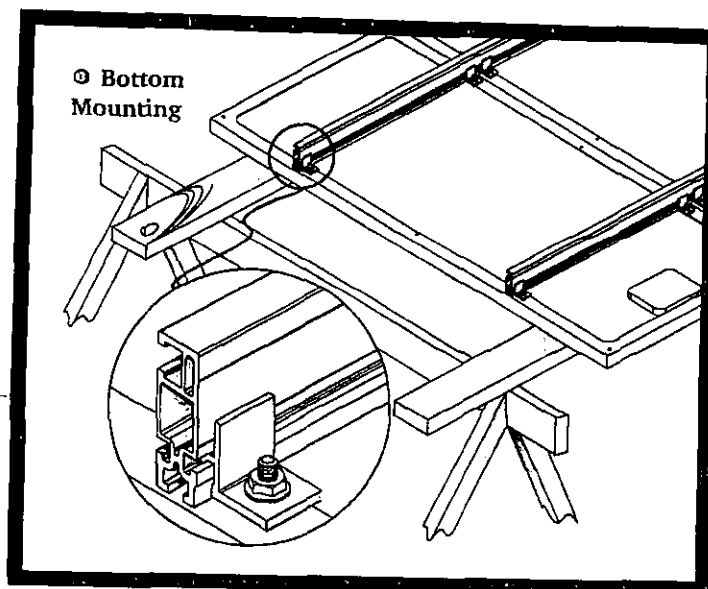
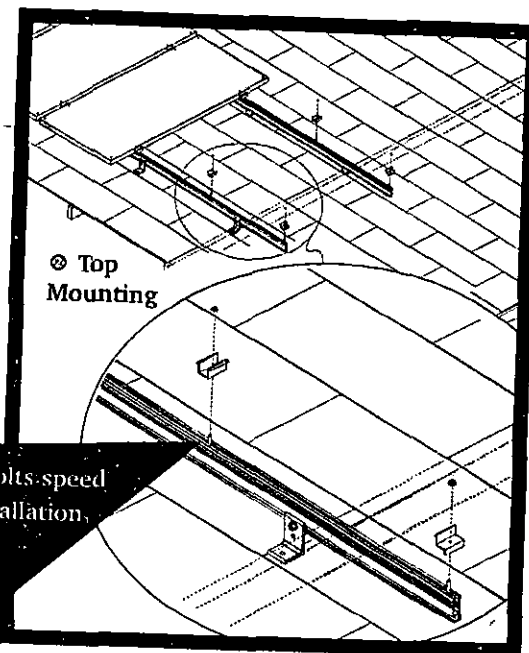
PV MODULE MOUNTING SYSTEM

Versatile Components Give You Choices

The choice is yours. Attach your modules directly to SolarMount on the roof, or pre-assemble modules and rails and attach to the footings afterward.



T-bolts speed installation.



SolarMount® Rails

⊙ The heart of the system. Four mounting slots in the SolarMount® rail give you ultimate flexibility for module mounting and foot placement. Clamp modules to the rails from the top, freeing yourself from the constraint of the module mounting holes. Or clip and bolt modules from the bottom to either side of the rail. The footing bolt slot gives you complete freedom of footing placement. You'll always be able to hit the rafter.

Top Mounting Clamps

⊙ Mount your modules to the rail from the top. This is ideal for flush mount applications, such as residential rooftops, where it is most convenient to pre-assemble rails and footings before installing modules.

Clamps also free you from the constraints of module mounting holes. Achieve a secure attachment anywhere along a module's frame.

Bottom Mounting Clips

⊙ Use bottom mounting clips whenever you prefer to attach rails directly to the module mounting holes. Simply fit the clip into its rail slot over the mounting bolt for a secure connection.

Adjust the clip position anywhere within the rail slot. Alignment of rails to module mounting holes is always easy and convenient.



October 5, 2007

401 Chambersbridge Rd

Brick, NJ

Construction Department,

I'm submitting the building and electric permit applications for the installation of a 6.27 kw solar electric system at 58 Brower Drive, Brick. I've included the manufacturer's technical worksheets for the (3) primary components of the system; the inverters, the solar panels, and the mounting system.

RE: Installation Procedure

Solar panels are lightweight and durable. UL Listed while weighing about 2.5 lbs / Sq ft. The mounting system is attached to the roof using 4"x5/16" Stainless Steel Lag bolts into the roof rafters. Sea Bright Solar applies a watertight seal using butyl rubber and roof-rated silicone.

Please contact me with the new Inspection date and any questions.

Regards,

Jacqueline Callas
Office Manager
(732) 450-8852